

**ABSTRACT OF THE DISCLOSURE**  
**FREQUENCY ANALYSIS**

5 An apparatus for frequency content separating an input signal, said apparatus comprising a plurality of frequency splitting stages, each stage including one or more up-converter and down-converter pairs, an up-converter and down-converter pair serving to receive a complex input signal representing an input bandwidth and to output a first complex output signal representing an upper portion of said input bandwidth and a second complex output signal representing a lower portion of said input bandwidth, said first portion and said second portion being contiguous and  
10 together representing said input bandwidth portion.

[Figure 6]

0974673-020404  
T0T020" E794750